

Appl. No. 10/051,094
Amendment dated: June 23, 2004
Reply to OA of: April 2, 2004

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1(previously presented). An electron tube having a ring-less getter of a tablet shape in a vessel,

wherein a light is irradiated on the ring-less getter to thereby activate the ring-less getter and the ring-less getter is mounted on a metallic layer formed in the vessel and a metallic wire is hanged to the ring-less getter and then two end portions of the metallic wire are welded to the metallic layer.

2(original). The electron tube of claim 1, wherein the ring-less getter is an evaporation type ring-less getter; and an evaporated getter generated by irradiating the light on the ring-less getter forms a getter film in the vessel of the electron tube.

3(original). The electron tube of claim 1, wherein the ring-less getter is a non-evaporation type ring-less getter; and the light is irradiated on the ring-less getter to selectively heat the ring-less getter, thereby activating the ring-less getter.

4(original). The electron tube of claim 1, wherein the ring-less getter is installed on the vessel including at least one substrate of the electron tube.

5(original). The electron tube of claim 1, wherein the ring-less getter is installed on a component of the electron tube.

Claim 6(canceled).

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7(previously presented). An electron tube having a ring-less getter of a tablet shape in a vessel,

wherein a light is irradiated on the ring-less getter to thereby activate the ring-less getter and two end portions of a metallic wire installed on the ring-less getter are welded to a metallic layer formed in the vessel.

8(previously presented). The electron tube of claim 7, wherein the metallic wire is mounted on a metallic layer side of the ring-less getter.

9(original). The electron tube of claim 8, wherein the metallic wire is mounted on the metallic layer parallel to a display region of the electron tube.

10(previously presented). The electron tube of claim 1 or 7, wherein the vessel is a vacuum vessel; the welding is performed by employing an ultrasonic bonding; the metallic wire is a bonding wire; and the metallic layer is a metallic thin film.

11(previously presented). An electron tube having a ring-less getter of a tablet shape in a vessel,

wherein a light is irradiated on the ring-less getter to thereby activate the ring-less getter and the ring-less getter includes a getter material layer and a metallic layer; and the metallic layer of the ring-less getter is welded to a corresponding metallic layer formed in the vessel.

12(previously presented). An electron tube having a ring-less getter of a tablet shape in a vessel,

wherein a light is irradiated on the ring-less getter to thereby activate the ring-less getter and the ring-less getter includes a getter material layer and a metallic layer formed by press forming getter material powder and metal powder, respectively;

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and the metallic layer of the ring-less getter is welded to a metallic layer formed in the vessel.

13(previously presented). An electron tube having a ring-less getter of a tablet shape in a vessel,

wherein a light is irradiated on the ring-less getter to thereby activate the ring-less getter and the ring-less getter includes a getter material layer and a metallic layer formed by press forming the getter material powder and a metal film/plate, respectively; and the metallic layer of the ring-less getter is welded to a metallic layer formed in the vessel.

14(previously presented). An electron tube having a ring-less getter of a tablet shape in a vessel,

wherein a light is irradiated on the ring-less getter to thereby activate the ring-less getter and the ring-less getter includes a getter material layer and a metallic wire formed by pressing getter material powder and a metal wire, respectively; and the metallic wire of the ring-less getter is welded to a metallic layer formed in the vessel.

15(currently amended). An electron tube having a ring-less getter of a tablet shape in a vessel,

wherein a light is irradiated on the ring-less getter to thereby activate the ring-less getter and the ring-less getter includes a metallic layer and a getter material layer having a getter material film; and ~~[[the]]~~ a metallic wire of the ring-less getter is welded to a metallic layer formed in the vessel.

16(original). The electron tube of one of claims 11 to 15, wherein the getter material layer of the ring-less getter is evaporated by the light and there is formed a getter mirror film on an inner side of a corresponding substrate or a corresponding

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component of the electron tube facing to the substrate or the component where the ring-less getter is fixed.

17(original). The electron tube of one of claims 11 to 15, wherein the light is irradiated on the getter material layer of the ring-less getter from outside of a corresponding substrate facing to the substrate or the component where the ring-less getter is fixed; and there is formed a getter mirror film on an inner side of the corresponding substrate.

18(original). The electron tube of one of claims 11 to 15, wherein the vessel is a vacuum vessel; the welding is performed by employing an ultrasonic bonding; and the metallic wire is a bonding wire; and the metallic layer is a metallic thin film.

19(previously presented). The electron tube of one of claims 1, 7 and 11 to 15, wherein the electron tube is a fluorescent display device.

Claims 20-25(canceled).